## A Relation

Oncerning the Quick-silver Mines in Friuli; communicated by Dr. Edward Brown; co firming as well the Accompt formerly given of that subject, in Numb, 2. of these Transactious, as enlarging the same with some Additions.

Friuli, is feated low, and encompass'd with Hills on all sides. A River of the same name runs by it, which although Leandro terms it superbissimo siume d'Idria, yet I sound small and shallow at the time when I was there; though upon plentisul Raine it proves sufficient to convey down the Firr-Trees and other Wood required in the building of the Mines, and also for Fuel required in the service of them: And to this end there is an handsome work of Piles made sloaping athwart the River (after the same manner as I observed in Newsol in upper Hungary cross the River Gran;) to stop the Trees, which are cut down, and cast into the River above this place.

What is chiefly confiderable in this Town, are the Quickfilver-Mines, very well known to the Neighbouring parts, and

exceeding useful to many at greater distance.

The entrance into these Mines is not high, or upon an Hill, as in many other Mines, but in the Town it self, whereby they are somewhat the more troubled with Water, against which they are provided with many excellent Engins and Devices, as at other deep Mines. The deepest part of the Mine from the entrance, is between 120 and 130 sathoms.

Of the Quick-filver of this Mine they make two forts: The one they call Iungfraw, that is, Virgin-Quickfilver; the other, plain Quickfilver. Virgin-Mercury they call that, which discovers it felf without the help of Fire; and is either plainly to be seen in the Ore, or falls down in little drops in the Mine, and sometimes streams out in good quantity; as about seven years agoe it can out of the Earth at first in a streame as small as a thred, and afterwards as big as a pack-thred, but ceas'd in three or our dayes.

That also is accounted Virgin-Quicksilver, which, having no need

need to pass the fire, is separated by water first in a Sive, and afterwards in a long trough, having very small holes at one end. So that there are in a manner two forts of Virgin-Mercury; the one, running out and discovering itself without labour; the other, requiring some way of Extraction and separation, though

not so high an one, as by Fire.

Plaine Quick silver they name that, which is not at first perceived by the Eye, or falls from the Ore, but is forc'd out by Fire. And this they obtaine out of the Ore, or out of the Cinnaber of Mercury, which they digg out of this Mine. The Ore of this Mine is of a dark colour, mix'd with red. But the best is an hard stone; which they commit not presently to the operation of the Fire, but powder it grossly, and work it by the Sive; that so, if any Virgin-quick silver be found in it, it may be separated in this manner, and what doth not pass the Sive, may be separated by Fire in Iron-surnaces; Fifty of them in a Fire.

The Quickfilver-ore of this Mine is the richest of all Ores, I have yet seen; for ordinarily it contains in it halfe Quickfilver, and in two parts of Ore one part of Quickfilver, and sometimes

in 3. parts of Ore, two parts of Qu ckfilver.

I went into the Mine by the Pitt of St. Agatha, and came up again by that of St. Barbara, descending and ascending by Ladders. I ascended at one of 639, staves or 89, sathoms. Andre- as Sisterus, in Kircher's Mund Subterraneus, makes such a dreadful description of this Mine, that it might discourage any from attempting the descent; which makes me doubt, Whether he had been in any other Mine, especially where the descent is made by Ladders.

This Mine. I was informed, hath been wrought 200, years, about the same space of time with Newfol-Mine, but come much short in time of the Silver-mine at Schemnitz, and much thorter yet of the notable Lead-mines in upper Carinthia Some hundreds of men are employed about this Mine of Idria; of which the chief Officers are the Prefect, the Controller, and the

Judge.

I heard no complaint of the Damps of this Mine, as I have heard of divers others. Yet the wormen are sufficiently mischiev'd with out them: for, though they be not suddenly inflocated, yet the Mercury getting into their Bodies, they are languishing ly destroyed by it. Much less could I hear any news of eith e moxious or innocent Apparitions, Virunculi &c. such as some

write, and many talk of in other Mines.

In a Laboratory, where the Quickfilver is separated by Fire, I saw an heap of 16000. Retorts of Iron; every one of which costs a Crown at the best hand from the Iron-surnaces in Carimhia. There are 800. Retorts and as many Recipients employ'd together, in drawing over the Quicksilver in 16. Furnaces; 50 in each Furnace, 25. of a side, 12. above, and 13. below of each side.

Fune 12, when I was there, they carried out 40. Saumes of Quickfilver into forrain parts, each Saume containing 315, pound weight, to the value of 400 ducats of Gold. Though the conveyance be not easy, yet some is sent as farr as Cremnitz in Hungary, for the use of the Gold-mines; and very much carried away South sard. For, though the River by the Town be but small, yet they are not very farr from the Sontius or Lysonzo, a considerable River, which runs into the Gulf of Trieste in the Adriatick Sea.

In the Castle I saw 3000 Saumes of Quicksilver tog ther, in barrels; the Quicksilver being first made up in double leather: And in another house as much rich Ore, as can be distill'd in 2. years, except they have great plenty of rain to bring down the wood; but, the Hills being high about them, it snows at the tops of them oftner than it rains.

The Countrys, through which I pass'd, are singularly well wooded, and well stor'd with fair Trees, wherein, beside such as grow with us in England, are stately Firrs, Larches, Pines, Pinasters, Picea's, and that nobly crisped and well grain'd kind of Acer, whereof Viols and Violins are made: Whereof there is also plenty in the Country of Saltzburg and Carinthia.

Travelling sometimes in the night, we had continually about us a great number of large Glow-worms, which put into papers gave a dimm light like Candles in Lanthorns; and the Aire al-

to full of flaming Flyes, affording some delight to us.

The way unto the splace I found difficult; for, travelling from places on the borders of *Groatia* by *Lovitch*, I was faine to pass

over great mountains, and coming from it, I pass'd over Swartzenberg or the Black mountain, from whence I descended 10. miles in a rocky Country, and farr more stony than the Crau or Campus lapidosus in Provence; and so to Aideschini and Goritia, and leaving the Sclavonian behind, entred into the Lingua Fullana, and so onto this Noble and incomparably fortissed City; where being yet uncertain, whether I should go to Venice, I would not omit to present you this accompt, which I beseech you to accept from Gre.

Palma nova in Friuli June 15. 1669.

An Accompt from the same Dr. Brown
Concerning an Vn-common Lake, called the Zirchnitzer-See, in
Carniola.

Aving cross d the River Dravus, and pass'd Mount Luibel in the Carnick Alpes, by that noble passage, cut through the Rooks, and vaulted like that of Pausilype near Naples, I had a desire to take a view of the Lake of Zirchnitz, so much spoken of, and written on by so sew; and therefore I went unto Crainburg upon the River Savus, and so to Labach, the chief City of Carniola; from whence I continued my Journey in Carniola betwixt the Hills and a great Marsh, till I came to Brounizza, two leagues from whence and beyond the Hills is seated the said Lake, receiving that name from Zirchnitz, a town of about 300, houses.

This Lake is near two German Miles long, and one broad. On the South-side thereof lyes a great Forrest, wherein are many Deer, and wild Boares, Wolves and Bears. On the North side the Country is flat; but the whole Valley is encom-

passed with Hills, at some distance from it.

This Lake is well fill'd with Water for the greatest part of the Year; but in the Month of *June* it sinketh under ground, not only by percolation or falling through the pores of the Earth, but retireth under ground, through many great holes at the bottom of it: And in the Month of *September* it returns by the same, and so in a very short time fills up the Valley again.

As the time of the waters Descent is short, especially when L 1111